

- e) introducing said nucleic acid targeting system into a cell *ex vivo* comprising a second native nucleic acid different from the first native nucleic acid;
 - f) allowing ~~the nucleotide~~ said third strand oligonucleotide to bind to the second native nucleic acid segment to form a triple helix nucleic acid, thereby inducing homologous recombination at the native nucleic acid segment target region; and
 - g) allowing homologous recombination to occur between the native and donor nucleic acid segments;
- wherein said donor nucleic acid is between more than 100 and 1,000,000 bases in length.

7. (Original) The method according to claim 6, wherein step d) comprises enzymatic or mild alkaline treatment.

8-26. (Canceled)